


Staff Details

Title	Dr. Mrs	First Name	Diana	Last Name	Pradhan	Photograph
Designation	Assistant Professor					
Department	Zoology					
Phone Number (Office)	7978852836					
Email	pradhan.diana@gmail.com					
Educational Qualifications						
Subject	Institution		Year	Details		
Ph.D.	National Institute of Technology, Rourkela, Odisha		2020	Thesis Title: Evolutionary adaptations and host immune modulation by <i>Salmonella</i> Typhimurium PI: Dr Vidya Devi Negi Co PI: Dr Rohan Dhiman		
PG	Utkal University		2014	Zoology		
UG	Regional Institute of Education, Bhubaneswar		2012	B.Sc. B. Ed		
Professional Experiences						
Organisation/ Institution		Designation	Duration	Role		
Government Science College, Chatrapur, Ganjam, Odisha		Assistant Professor	July 2023- Till date	Teaching UG and PG courses		
National Institute of Science Education and Research, Bhubaneswar		Research Associate-III	October 2023-July 2024	Research		

Indian Institute of Science, Bangalore, Karnataka	Research Associate-II	April 2023- July 2024	Research
Indian Institute of Science, Bangalore, Karnataka	National post-doctoral fellow	February 2021- February 2023	Research
Indian Institute of Science Education and Research, Berhampur, Odisha	Post-doctoral fellow	December 2020- February 2021	Research
Teaching Experience (Subjects/Courses Taught)			
Teaching UG and PG courses			
Honors & Awards			
<ul style="list-style-type: none"> • NPDF Fellowship, 2021-23, DST-SERB, Govt of India • INSPIRE Fellowship, 2016 (DST), Govt. of India (Did not avail) • Gold Medalist, 2014, Utkal University, Odisha, India • NET (LS), 2016, CSIR, Govt. of India • GATE 2014, MHRD, Govt. of India • Prof PK Parija award, 2016, Prof. PK Parija Charitable trust, Odisha 			
Publications			
<ul style="list-style-type: none"> • Pradhan, D., Prakash, D., Singh V. A nitrogen-responsive system of <i>P. aeruginosa</i> drives the production of a PAMP for <i>C. elegans</i> host. 2024. Submitted • Karmakar, K., Pradhan, D. and Chakravortty D. Climate change influences the trans-kingdom evolutionary spring of human pathogens. 2024. (Manuscript under review) • Pradhan, J., Pradhan, D., Sahu, J.K., Mishra, S., Mallick, S., Das, S. and Negi, V.D. A novel anti-virulence gene <i>rspA</i>, regulates <i>Salmonella</i> pathogenesis and biofilm formation through cellulose production. <i>Microbial Pathogenesis</i>. 2023, 106432. • Pradhan, D., Tanwar, A., Parthasarathy, S. and Singh, V. Toroidal displacement of <i>Klebsiella pneumoniae</i> by <i>Pseudomonas aeruginosa</i> is a unique mechanism to avoid competition for iron. 2022. <i>bioRxiv</i> (preprint) • Pradhan D, Pradhan J, Mishra A, Karmakar K., Dhiman R., Chakravortty D, Negi V. D Immune modulations, and survival strategies of evolved hypervirulent <i>Salmonella</i> 			

Typhimurium strains. *BBA general Subjects*, 2020, 129627.

- **Pradhan, D.** & Negi, V.D. Repeated *in-vitro* and *in-vivo* exposure leads to genetic alteration, adaptations, and hypervirulence in *Salmonella*. *Microbial pathogenesis*, 2019, 136, 103654.
- **Pradhan, D.** & Negi, V.D. Stress-induced adaptations in *Salmonella*: a ground for shaping its pathogenesis. *Microbiological research*, 2019, 126311.

Public Service / University Service / College Service /Consulting Activity/College Committee members

NA

Professional Societies Memberships

Member of Microbiology Society

Projects (Major Grants/Collaborations)

NA

Other Details if any

CONFERENCES ATTENDED

- Presented poster in **3rd C. elegans meeting held at Trivandrum, Kerala from 27-30 September 2022**, Multiple *in-vivo* passaging in *C. elegans* leading to hypervirulent *Salmonella* strain. **Pradhan, D.**, Negi V.D.
- Presented poster in Cell-cell communication in bacteria: **Fundamental and applied aspects held at Robinson college, Cambridge, UK, 28-30 June 2022**, Molecular determinants of *Pseudomonas aeruginosa* regulating virulence of *Klebsiella pneumoniae*. **Pradhan, D.**, Tanwar, A., Singh, V.
- Oral presentation in **international conference on Bacteriology and Infectious Disease 2019 at Singapore** from 27-28 May 2019, "Multiple *in-vitro* and *in-vivo* passaging: ground for evolutionary adaptability and emergence of hyper virulent *Salmonella* strains". **Pradhan, D.**, Negi V. D.
- Presented poster in **Global trends in immune cell biology and immune technology** at Department of Biochemistry, **Indian Institute of Science (IISc) Bangalore**, on 22nd June 2018. "*Salmonella* infection and its evolutionary adaptability in host environment". **Pradhan, D.**, Negi V. D.

- Presented poster in **Emerging Discoveries in Health and Agricultural Sciences**, School of Life Sciences, **Jawaharlal Nehru University**, New Delhi, 16-19 November 2017, “Repeated *in-vitro* and *in-vivo* exposure leads adaptations in *Salmonella*” **Pradhan, D.**, Negi V. D.
 - Attended **MCB 75: from molecules to organisms**, at **Indian Institute of Science (IISc) Bangalore**, 11-14 Dec. 2015.
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